PATENT COOPERATION TREATY





INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

	(PCT Afficies)	and Rule 707	·				
Applicant's or agent's file reference	FOR FURTHER ACTIO	ON	See Form PCT/IPEA/416				
International application No.	International filing date(day	v/month/year)	Priority date (day/month/ye				
PCT/KR2004/003100 27 NOVEMBER		4 (27.11.2004)	28 NOVEMBER 2003 (28	11.2003)			
nternational Patent Classification (IPC) or national classification and	d IPC					
IPC7 B65D 51/28							
Applicant				,			
CHO, YOUNG-KOOK							
This report is the international p Authority under Article 35 and 0	reliminary examination report transmitted to the applicant ac	t, established by this cording to Article 36	International Preliminary Exa	umining			
2. This REPORT consists of a total		including this cover s	heet.				
	A by ANNEYES comprising:		C. 11				
5 7 (, , , b - amplicant o	nd to the International Bureau	I) a totat or	sheets, as follows:	for this report			
sheets of the do and/or sheets co	escription, claims and/or draw ontaining rectifications author			n 607 of the			
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beyond the disc	closure in the international app	plication as filed, as i	ndicated in item 4 of Box No.	. I and the			
Supplemental I	Box.	dianta time and numb	per of electronic carrier(s))				
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Box relating to Seque	nce Listing (see Section 802 of	of the Administrative	Instructions).				
	1 C-11-wing item	nc:					
4. This report contains indications	s relating to the following iten-	115.					
	ne report						
Box No. II Priority	and industrial applicability						
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Box No. IV Lack of	Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
Box No. V Reasone citations	and explanations supporting	such statement					
Box No. VI Certain	documents cited	•					
Box No. VII Certain	Box No. VII Certain defects in the international application						
	observations on the internatio						
Date of submission of the demand		Date of completion	of this report	•			
12 AUGUST 200	5 (12.08.2005)	31 OCTO	BER 2005 (31.10.2005)				
Name and mailing address of the IP	EA/KR	Authorized officer		EINIM			
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International application No.

PCT/KR2004/003100

ox No.	I Basis of the report	
l. With	h regard to the language, this report is based on the international application in rwise indicated under this item.	the language in which it was filed, unless
	and the state of t	ing language English
لاعا	which is the language of a translation furnished for the purposes of:	
	international search (under Rules 12.3 and 23.1(b))	
	publication of the international application (under Rule 12.4)	
	international preliminary examination (under Rules 55.2 and/or 55.3)	
to the	regard to the elements of the international application, this report is based on (ne receiving Office in response to an invitation under Article 14 are referred to in xed to this report): the international application as originally filed/furnished	replacement sheets which have been furnished a this reort as "originally filed" and are not
\boxtimes	the description:	as originally filed/furnished
	pages 1 - 14, 16, 18 - 56 pages* 15, 17 received by this Authority	
	pages* 15, 17 received by this Authority pages* received by this Authority	
	pages	
\boxtimes	the claims:	as originally filed/furnished
	pages 57 - 72	as originally fled furnished together with any statment) under Article 19
	pages* as amended (1) pages* 73 - 74-4 received by this Authority	on 12/08/2005
	pages* received by this Authority	/ on
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	the drawings: pages	as originally filed/furnished
	pages received by this Authority	
	pages*received by this Authority	y on
3. 🔀	the sequence listing and/or any related table(s) - see Supplemental Box Relating The amendments have resulted in the cancellation of: the description, pages the claims, Nos. 66 - 69 the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):	
. —		his report and listed below had not been
4.	This report has been established as if (some of) the amendments annexed to the made, since they have been considered to go beyond the disclosure as filed, as (Rule 70.2(c)). the description, pages the claims, Nos.	s indicated in the Supplemental Box
	the drawings, sheets	
	the sequence listing (specify):	
	any table(s) related to sequence listing (specify):	
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* If ite	m 4 applies, some or all of those sheets may be marked "superseded."	

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International application No.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Claims	2 - 18, 20 -65 , 70 - 81	YES
Claims	1, 19	NO
Claims	2 - 8, 10 - 18, 20 - 65 , 70 - 81	YES
Claims	9	NO
Claims	1 - 65 , 70 - 81	
Claims	None	NO
	Claims Claims Claims Claims	Claims 1, 19 Claims 2 - 8, 10 - 18, 20 - 65, 70 - 81 Claims 9 Claims 1 - 65, 70 - 81

2. Citations and explanations (Rule 70.7)

The following documents identified in the International Search Report have been considered for the purpose of this report:

D1: US 4,591,050 A
D2: US 4,793,475 A
D3: US 6,045,254 A
D4: JP 04-109030 U

1. Novelty

The invention of claim 1 is a bottle comprising a bottle body, an additive storage container provided with an insertion and an exposed part, an opening unit, and separation means for removing the additive storage container from the mouth of the bottle body.

The invention of claim 19 is a bottle comprising a bottle body, an additive storage container having a cylindrical additive storage part and a discharge port, and an opening unit having an end plate, a main cap, and a slider.

D1 discloses a package equivalent to the bottle body of claims 1 and 19, a cup equivalent to the additive storage container of claims 1 and 19, a cap (4) equivalent to the opening unit of claims 1 and 19, and a bridge (21) equivalent to the separation means of claim 1.

Said cup (2) of D1 comprises a lower portion (2"), an upper portion (2"), and a rim (5). The lower portion and the upper portion are equivalent to the insertion of claim 1, and the rim (5) is equivalent to the exposed part of claim 1. Said cup (2) of D1 also has a cylindrical shape and a discharging portion when the bridge (21) is cut. The cylindrical shape and the discharging portion are respectively equivalent to the cylindrical additive storage part and the discharge port of claim 19. Said cap (4) of D1 comprises a screw cap cover (10) equivalent to the end plate and the main cap of claim 19, and a collar (9) equivalent to the slider of claim 19.

(Continued in Supplemental Box.)

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

BOX V.

Therefore, all the technical features of claims 1 and 19 are disclosed in D1, and claims 1 and 19 do not satisfy the requirement of PCT Article 33(2) in respect of novelty.

D1 discloses a bridge equivalent to the separation means of claims 1 to 9, 32 to 49 and 70 to 81 of the present application, and a cap having a collar equivalent to the slider of claims 14 to 45, and 50 to 65.

D2 discloses a partition wall (22) equivalent to the valve body of claims 3 to 8, 12 and 13.

D3 also discloses a valve part (14) equivalent to the valve body of claims 3 to 8, 12 and 13.

D4 discloses a rotation block (6) equivalent to the ratchet of claims 40 to 45.

However, the elevating protrusion of claims 2 to 8, the mouth of the bottle body of claim 9 formed in a double injection molding process, the ring-type stopper and the hook of claims 10 and 11, the locking groove of claims 13 and 14, the partition wall of claims 14 to 18, the outside protrusion and outside hooking protrusion of claims 20 to 31, the cutting protrusion of claims 32 to 49, the hook protrusion of claims 50 to 58, the bursting film of claims 59 to 65 and 70 to 72, and the plug of claims 73 to 81 are disclosed in neither D1 nor D2.

Therefore, claims 2 to 18, 20 to 65 and 70 to 81 satisfy the requirement of PCT Article 33(2) in respect of novelty.

2. Inventive Step

Claim 9 defines the bottle body of claim 1 having a mouth of the bottle body formed in a double injection molding process, but the double injection molding process is a wellknown process for making a bottle and obvious to the person skilled in the art.

Therefore, claim 9 does not satisfy the requirement of PCT Article 33(3) in respect of inventive step.

However, the technical features of claims 2 to 8, 10 to 18, 20 to 65, and 70 to 81 are not obvious to the person skilled in the art and cannot be readily achieved from any of the prior art D1 to D4.

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Supplemental Box

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previous page.

However, the technical features of claims 2 to 8, 10 to 18, 20 to 65 and 70 to 81 are not obvious to the person skilled in the art and cannot be readily achieved from any of the prior art D1 to D4.

Therefore, claims 2 to 8, 10 to 18, 20 to 65 and 70 to 81 satisfy the requirement of PCT Article 33(3) in respect of inventive step.

3. Industrial Applicability

The inventions of claims 1 to 65 and 70 to 81 relate to a bottle capable of containing two kinds of materials and easily mixing them at an exact mixture ratio. Therefore, claims 1 to 65 and 70 to 81 possess industrial applicability according to PCT Article 33(4).